ATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU **PCT** United States Patent and Trademark **NOTIFICATION OF ELECTION** Office (Box PCT) (PCT Rule 61.2) Crystal Plaza 2 Washington, DC 20231 **ETATS-UNIS D'AMERIQUE** Date of mailing (day/month/year) in its capacity as elected Office 14 September 1998 (14.09.98) Applicant's or agent's file reference International application No. GR 97P1182P PCT/EP98/00877 Priority date (day/month/year) International filing date (day/month/year) 17 February 1997 (17.02.97) 16 February 1998 (16.02.98) **Applicant** GRADISCHNIG, Klaus 1. The designated Office is hereby notified of its election made: | X | in the demand filed with the International Preliminary Examining Authority on: 25 August 1998 (25.08.98) in a notice effecting later election filed with the International Bureau on:

was not
made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

	Authorized officer	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	S. Cruz	
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38	

2. The election

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From the INTERNATIONAL SEARCHING AUTHORITY

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NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

GR Frist	
	Date of mailing (day/month/year) 05/08/1998
Applicant's or agent's file reference	
GR 97P1182P	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/EP 98/00877	(day/month/year) 16/02/1998
Applicant	
SIEMENS AKTIENGESELLSCHAFT et al.	
1. X The applicant is hereby notified that the International Search	Report has been established and is transmitted berewith
Filing of amendments and statement under Article 19	report has been established and is transmitted herewith.
The applicant is entitled, if he so wishes, toamend the claim	s of the International Application (see Rule 46):
When? The time limit for filing such amendments is normal International Search Report; however, for more de	lly 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet.
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35	
For more detailed instructions, see the notes on the accor	npanying sheet.
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	Report will be established and that the declaration under
3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has been applicants's request to forward the texts of boththe pro	n transmitted to the International Bureau together with the test and the decision thereon to the designated Offices.
no decision has been made yet on the protest: the appl	licant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international ap If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided in completion of the technical preparations for international publications.	of withdrawal of the international application, or of the n Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the
Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 more	al preliminary examination must be filed if the applicant on the priority date (in some Offices even later).
Within 20 months from the priority date, the applicant must perfor before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	e demand or in a later election within 19 months from the

Authorized officer

René Stolk



Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040. Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international politication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 *Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added.*
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



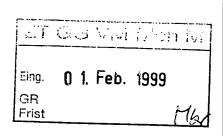
PATENT COOPERATION TREATY

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

SIEMENS AG Postfach 22 16 34 D-80506 München ALLEMAGNE



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NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Rule 71.1)

Date of mailing (day/month/year)

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Applicant's or agent's file reference

International application No.

GR 97P1182P

PCT/EP98/00877

International filing date (day/month/year) 16/02/1998

Priority date (day/month/year)

IMPORTANT NOTIFICATION

17/02/1997

Applicant

SIEMENS AKTIENGESELLSCHAFT et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Authorized officer

Finnie, A

European Patent Office D-80298 Munich

Tel. (+49-89) 2399-0, Tx: 523656 epmu d

Fax: (+49-89) 2399-4465

Tel. (+49-89) 2399-8251

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Form PCT/IPEA/416 (July 1992)

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		f Transmittal of International Search Report
GR 97P1182P	ACTION (Form PC1/ISA/2	(20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 98/00877	16/02/1998	17/02/1997
Applicant		
SIEMENS AKTIENGESELLSCHAF	Tet al.	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists		
X It is also accompanied by a copy	y of each priorart document cited in this report.	
Certain claims were found uns	searchable(see Box I).	
2. Unity of invention is lacking(s	ee Box II).	
_		
	ntains disclosure of a nucleotide and/or amino out on the basis of the sequence listing	o acid sequence listing and the
	with the international application.	
furn	ished by the applicant separately from the inter	national application,
	but not accompanied by a statement to the matter going beyond the disclosure in the	
	mane. genig se, one ale aleases in ale	mierrational application ac mod.
Tran	nscribed by this Authority	
4. With regard to the title, X the	text is approved as submitted by the applicant	
	text has been established by this Authority to re	ead as follows:
5. With regard to the abstract,	text is approved as submitted by the applicant	
	text has been established, according to Rule 38	3.2(b), by this Authority as it appears in
вох	III. The applicant may, within one month from trch Report, submit comments to this Authority.	he date of mailing of this International
-	,	
The figure of the drawings to be publication	ished with the abstract is:	
	suggested by the applicant.	None of the figures.
· · · · · · · · · · · · · · · · · · ·	ause the applicant failed to suggest a figure.	
beca	ause this figure better characterizes the invention	on.

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP 98/00877

									
A. CLASSI IPC 6	FICATION OF SUBJECT MATTER H04Q3/00 H04Q11/04	4,							
According to	o International Patent Classification(IPC) or to both national class	sification and IPC							
B. FIELDS SEARCHED									
Minimum do IPC 6	ocumentation searched (classification system followed by classifi H04Q	cation symbols)							
	tion searched other than minimumdocumentation to the extent th								
Electronic	ata base consulted during the international search (name of data	3 base and, where practical, search terms used							
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT								
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.						
Α	GRADISCHNIG K D: "TRENDS OF SI PROTOCOL EVOLUTION IN ATM NETWO INTERNATIONAL SWITCHING SYMPOSI '95), vol. 2, 23 - 28 April 1995, pa	1-6							
	310-314, XP000495673 BERLIN see the whole document								
А	LAW B: "SIGNALLING IN THE ATM BT TECHNOLOGY JOURNAL, vol. 12, no. 3, 1 July 1994, pa XP000454303 see page 94-95, paragraph 3.1 see page 99-100, paragraph 5.2 see figures 1,4	1,4							
		-/							
X Furth	er documents are listed in the continuation of box C.	Patent family members are listed in	in annex.						
° Special cate	egories of cited documents :	"T" later document published after the inter	rnational filing date						
conside	nt defining the general state of the art which is not ered to be of particular relevance ocument but published on or after the international	or priority date and not in conflict with cited to understand the principle or the invention	the application but eory underlying the						
filing da	ate nt which may throw doubts on priority claim(s) or	"X" document of particular relevance; the c cannot be considered novel or cannot	t be considered to						
which is citation	or other special reason (as specified) nt referring to an oral disclosure, use, exhibition or	involve an inventive step when the do "Y" document of particular relevance; the c cannot be considered to involve an in- document is combined with one or mo	claimed invention ventive step when the						
other m "P" documer		ments, such combination being obvious in the art. "&" document member of the same patent	us to a person skilled						
	actual completion of theinternational search	Date of mailing of the international sea							
29	9 July 1998	05/08/1998							
Name and m	ailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Gijsels, W							

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INTERNATIONAL SEARCH REPORT

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		191
Category °	Citation of document, with indication where appropriate, of the relevant passages		Relevant to claim No.
A	US 5 268 895 A (TOPPER J) 7 December 1993 see abstract see claim 8; figures 1,2		2,5
4	HÖNING G A: "A HIGH-PERFORMANCE IMPLEMENTATION OF SIGNALLING SYSTEM NO. 7 BASED ON ATM-TECHNOLOGY" INTERNATIONAL SWITCHING SYMPOSIUM (ISS '95), vol. 2, 23 - 28 April 1995, pages 305-309, XP000495672 BERLIN		
	·		
		·	

Patent document		Publication		atent family	EP 98/00877 " Publication
US 5268895	A A	07-12-1993	JP JP	2555907 B 4029435 A	20-11-1996 31-01-1992
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference GR 97P1182P		's file reference	FOR FURTHER ACTION		Notification of Transmittal of International minary Examination Report (PCT/IPEA/416)
''			International filing date (day/month/year	"	Priority date (day/month/year)
			16/02/1998	•	17/02/1997
	Patent	Classification (IPC) or n	ational dassification and IPC		
H04Q3/00					
Applicant					
SIEMENS	AKTI	ENGESELLSCHAF	T et al.		
1. This int	ernati	onal preliminary exan	nination report has been prepared by	this In	ternational Preliminary Examining Authority
			according to Article 36.		, ,
2. This RE	POR	T consists of a total o	f 4 sheets, including this cover she	et.	
⊠ Th	ie ran	ort is also accompani	ed by ANNEXES, i.e., sheets of the	descrip	tion_claims and/or drawings
wt	ich h	ave been amended a	nd are the basis for this report and/o	r sheets	containing rectifications made
be	fore t	his Authority (see Hul	e 70.16 and Section 607 of the Admi	ınıstratıv	/e instructions under the PC1).
These	annex	es consist of a total o	f 4 sheets.		_
111000	u				-
3. This re	port c	ontains indications re	ating to the following items:		
1	×	Basis of the report			
·		Priority			
111		Non-establishment	of opinion with regard to novelty, inve	entive s	tep and industrial applicability
IV		Lack of unity of inve	ntion		
V	Ø		t under Article 35(2) with regard to nations supporting such statement	ovelty,	inventive step or industrial applicability;
VI		Certain documents	cited		
VII		Certain defects in th	e international application		
VIII		Certain observation	s on the international application		
Date of sub	nissior	of the demand	Date of co	mpletion	of this report
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Name and r	nailing	address of the IPEA/	Authorized	l officer	iscuts Air
		nnan Botart Office			September 19 19 19 19 19 19 19 19 19 19 19 19 19
		opean Patent Office 0298 Munich	Haas, H		

Telephone No. (+49-89) 2399-8800

Fax: (+49-89) 2399-4465

Tel. (+49-89) 2399-0, Tx: 523656 epmu d

International application No. PCT/EP98/00877

1. 1	Basi	is o	fthe	report
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1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in

	the report since they do not contain amendments.):							
	Des	cription, pages:				·		
	1,2,	4-7	as originally filed					
	3,3a	ı	as received on	12/01/1999	with letter of	11/01/1999		
	Clai	ms, No.:						
	1-6		as received on	12/01/1999	with letter of	11/01/1999		
	Dra	vings, sheets:						
	1/4-	4/4	as originally filed					
2.	The amendments have resulted in the cancellation of:							
		the description,	pages:		•			
		the claims,	Nos.:					
		the drawings,	sheets:					
3.		This report has b considered to go	een established as if (some of) beyond the disclosure as filed) the amendme (Rule 70.2(c)):	nts had not been ma	ade, since they have been		
4.	Add	ditional observation	ns, if necessary:			•		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP98/00877

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims 1-6

No: Claims

Inventive step (IS) Yes: Claims 1-6

No: Claims

Industrial applicability (IA) Yes: Claims 1-6

No: Claims

2. Citations and explanations

see separate sheet

SECTION V

The subject-matter of the international application relates to the message transfer part (MTP) in a signalling protocol of a node supporting high speed data transfers (claims 1, 4).

The nearest state of the art is document D1 (GRADISCHNIG K.D.: "TRENDS IN SIGNALLING PROTOCOL EVOLUTION IN ATM NETWORKS", ISS'95) presenting an overview of signalling protocol evolution in ATM networks.

The remaining documents of the International Search Report only refer to a more general prior art background in communications systems.

To solve the problem of enabling the transfer of longer messages than according to current MTP level 2, according to claims 1 and 4 of the international application nodes in enhanced links are identified by two signalling point codes, the codes either being part of the same (claim 1) or of different (claim 4) MTP networks.

This subject-matter is not rendered obvious, alone or in combination, by the documents of the International Search Report. Inventive activity and novelty are therefore acknowledged (Art. 33 (3) and (2) PCT).

The same applies to dependent claims 2, 3, 5, and 6.

As the subject-matter of the application relates to communication networks, the criteria of industrial applicability is met (Art. 33 (4) PCT).

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priority (combined linksets) and to select a specific link within a linkset (a collection of links directly connecting Such as two signalling points). No other information (like origination, MTP user, or MSU length) is generally evaluated for routing in the MTP.

The SCCP augments the MTP routing by providing additional functions to route on a so-called *global title* (GT), which can be a subscriber number of an 800-number. An SCCP routing on GT performs a process called *global title translation* (GTT) which derives the DPC of the final destination or the DPC of the next node (intermediate translator node) where the GT is further analyzed, eventually leading to the DPC of the final destination.

In addition to the GT the SCCP uses a so-called *subsystem* number (SSN) to identify the addressed SCCP user in the final destination.

This process also allows an SCCP message to cross MTP network boundaries.

In addition, the outcome of a GTT can depend on the availability status of the (next) destination. If the so-called primary destination, which would normally be the result of a GTT, or the addressed SSN is not available or reachable, an alternative destination can be the result of the GTT. This allows the SCCP to route messages to backup destinations (or backup intermediate translator nodes). Loadsharing between destinations is, in principle, also a possibility. Between two SCCP nodes, the messages are routed by the MTP using the DPC provided by the SCCP.

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State of the art-

The Document "Trends of signalling protocol evolution in ATM networks, ISS'95, vol.2, 23-28 April 1995, Berlin, pages 310-314, Gradischnig K.D." gives an overview of signalling protocol evolution in ATM networks.

The interworking problem arising if use of longer messages in networks containing also linksets supporting only short messages is to be made has not been addressed in any detail.

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New Claims I Claim As My. 8 Invention

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A. Node supporting links having the ability to transfer longer messages than according to current MTP level 2, so-called enhanced links, characterised in that said node is identified by two signalling point codes (PC1, PC2) one point code (PC2) being used to identify/address functions/MTP users which can make full use of the longer message length, but both point codes (PC1, PC2) being part of the same MTP network.

- 2. Node according to Claim 1, characterized by MTP routing tables supporting said enhanced links structured so that routing between nodes with said one point code (PC2) uses only enhanced links.
- 3. Node according to Claim 1 or 2, characterized by SCCP translation functions supporting said enhanced links engineered that primary translation is to logical destinations reachable via said enhanced links and backup translation is to logical destinations reachable (also) via links based on MTP level 2 if translation results in a physical destination located in a node supporting said enhanced links.

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Node supporting links having the ability to transfer longer messages than according to current MTP level 2, so-called enhanced links, characterised in that said node is identified by two signalling point codes (PC1, PC2) one point code (PC2) being used to identify/address functions/MTP users which can make full use of the longer message length, with the two point codes (PC1, PC2) being part of different MTP networks, i.e with a different network indicator, but all point codes being used to identify/address functions/MTP users which can make full use of the longer message length located in the adme MTP network.

Article 34 and 15

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5. Node according to Claim 4, characterized by MTP routing tables supporting said enhanced links structured so that routing between nodes with said one point code (PC2) uses only enhanced links.

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6. Node according to Claim 4 or 5, characterized by SCCP translation functions supporting said enhanced links engineered that primary translation is to logical destinations reachable via said enhanced links and backup translation is to logical destinations reachable (also) via links based on MTP level 2 if translation results in a physical destination located in a node supporting said enhanced links.

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